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A DRI ICA TIONI NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.		D 115 D 1	SRI1P029	7984
09/779,373	02/07/2001	Ronald E. Pelrine	5K111 027	
22434 7	590 11/13/2002			
BEYER WEAVER & THOMAS LLP			EXAMINER	
P.O. BOX 778 BERKELEY, CA 94704-0778			BUDD, MARK OSBORNE	
			2834	
			DATE MAILED: 11/13/2003	2

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s) - Applicant(s) - Pelvine of M
Office Action Summary	Examiner M. Budd Group Art Unit 2834
—The MAILING DATE of this communication appears	s on the cover sheet beneath the correspondence address
Period for Reply	D EXPIREMONTH(S) FROM THE MAILING DATE
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	
 Extensions of time may be available under the provisions of 37 CFR 1.1 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a replant NO period for reply is specified above, such period shall, by default, effective to reply within the set or extended period for reply will, by statute. 	.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS ply within the statutory minimum of thirty (30) days will be considered timely. expire SIX (6) MONTHS from the mailing date of this communication . Ite, cause the application to become ABANDONED (35 U.S.C. § 133).
Status 9 20 m	- 47
Responsive to communication(s) filed on 9-30-	- 07
 Since this application is in condition for allowance except accordance with the practice under Ex parte Quayle, 1935 	for formal matters, prosecution as to the merits is closed in 5 C.D. 1 1; 453 O.G. 213.
Disposition of Claims /- 2 47	is/are pending in the application.
Claim(s)	is/are withdrawn from consideration.
☐ Claim(s)	is/are allowed.
Claim(s)	is/are objected to
☐ Claim(s)————————————————————————————————————	are subject to restriction or election
☐ Claim(s)————————————————————————————————————	requirement.
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drawin	ng Review, PTO-948.
☐ The proposed drawing correction, filed on	
☐ The drawing(s) filed on is/are object	cted to by the Examiner.
☐ The specification is objected to by the Examiner.	
☐ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119 (a)-(d) Acknowledgment is made of a claim for foreign priority under the control of the contro	under 35 U.S.C. § 11 9(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of	of the priority documents have been
☐ received. ☐ received in Application No. (Series Code/Serial Numble of the code of the c	nternational Bureau (PC) Rule 17.2(a)).
*Certified copies not received:	•
Attachment(s)	
☐ Information Disclosure Statement(s), PTO-1449, Paper	r No(s) Interview Summary, PTO-413
Notice of Reference(s) Cited, PTO-892 (7)	Notice of Informal Patent Application, P 10-132
☐ Notice of Draftsperson's Patent Drawing Review, PTO-	948
	fice Action Summary

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97) Application/Control Number: 09/779,373

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Claims 1-37 rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. From the written descriptions and drawings it is unclear whether the electro active polymer actually "deflects" (the terminology used in the specification and claims) which indicates a bending mode of operation. It appears that the polymer actually expands and/or contracts in a single plane (expansion made) and therefore does not actually deflect. Thus, without clarity as to how the device operates one cannot make or use the device.

While applicant may be his or her own lexicographer, a term in a claim may not be given a meaning repugnant to the usual meaning of that term. See *In re Hill*, 161 F.2d 367, 73 USPQ 482 (CCPA 1947). The term "deflection" in claim 1-37 is used by the claim to mean "expansion/contraction," while the accepted meaning is "bending."

Because of the conflicting disclosures, the examiner is unable to determine whether to apply prior art which operates in the "bending" mode, or prior art which operates in the 'expansion' mode. Thus prior art cannot be applied until it is clear what is disclosed and/or claimed.

Cited of general interest are Rogallo, Hatamura and Fulton (bending mode). Yasuda, Chang, Okada and Toda teach expansion mode devices. Yamamuro, Porat, Beurrier, Itagaki, Edelman and Gragnolati all teach polymer transducers.

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The restriction requirement is hereby withdrawn as all claims were searchable in the same sub classes.

MANA A BUDD

art unit 21.2

M BUDD/pj

11/08/02